NC/QC/PD/MW-01/2018-19/OP-C3 Date: 23-04-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Development Works to Outdoor Stadium in PKs Colony Slum in Ward No.13.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

PHYSICAL TESTS ON CEMENT

Brand : ACC
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**162 min**	Shall not be less than 30 min
2	Final setting time	**275 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.82%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.16 mm**	Shall not be more than 10 mm
5	Compressive strength c) 3 days (average of three results) d) 7 days (average of three results)	**28.18 N/Sq mm** **39.85 N/Sq mm**	Shall not be less than 27 N/Sqmm Shall not be less than 37N/Sqmm

*As furnished by Client.
The Results relate only to the items tested.

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For Newzen Consultants Bangalore

Proprietor

Asst. Executive Engineer
Project Sub Division-I
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NC/QC/PD/MW-01/2018-19/OP-FA1

Date: 23-04-2018

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Development Works to Outdoor Stadium in PKs Colony Slum in Ward No.13.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**97.45**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**85.60**	60-95	75-100	85-100	
01.18	**73.25**	30-70	55-90	75-100	
600. mic	**43.55**	15.34	35-59	60-79	
300.mic	**25.70**	5-20	8-30	12-40	
150.mic	**8.35**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**16.36%**	-----
2	Silt Content	----	**0.53 %**	Not more than 8%
3	Specific Gravity	----	**2.62**	-------

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NC/QC/PD/MW-01/2018-19/OP-CA1 Date: 23-04-2018

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Development Works to Outdoor Stadium in PKs Colony Slum in Ward No.13.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	98.15	85-100	90 - 100
10 mm	45.35	0 - 20	25 - 55
4.75 mm	4.05	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	21.39%	Not to exceed 25 %
2.	Crushing value	26.82%	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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NC/QC/PD/MW-01/2018-19/OP-S1

Date: 23-04-2018

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 10 & 12 mm **TMT Steel.**

{Project*: Development Works to Outdoor Stadium in PKs Colony Slum in Ward No.13.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

TABLE – 1

SL No	Details	For 10 mm		For 12 mm	
		Test Results	Min Req. as per IS 1786-2008	Test Results	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**10.0 mm**	10.0 mm	**12.0 mm**	12.0 mm
02	Observed Wt/m Length **Kg/m**	**0.621**	0.567	**0.889**	0.834
03	Proof stress/Yield stress, fy , **N/mm^2**	**540.0**	500.0	**552.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**21.40**	12.00	**20.60**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**638.0**	545.0	**643.0**	545.0

*As furnished by Client.

The Results relate only to the items tested.

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